



FACILITY COMPLIANCE INSPECTION REPORT

Division of Waste Management Solid Waste Section

UNIT TYPE:												
Lined MSWLF	X	LCID		YW		Transfer		Compost	X	SLAS		COUNTY: LINCOLN PERMIT NO.: 55-03 FILE TYPE: COMPLIANCE
Closed MSWLF	X	HHW		White goods	X	Incineration		T&P	X	FIRM		
CDLF	X	Tire T&P / Collection	X	Tire Monofill		Industrial Landfill		DEMO		SDTF		

Date of Site Inspection: February 22, 2012

Date of Last Inspection: February 2, 2011

FACILITY NAME AND ADDRESS:

Lincoln County Landfill MSW & C&D
 5291 Crouse Rd. (SR-1169)
 Crouse, NC 28033

GPS COORDINATES:

N: 35.42288° E: - 81.35695°

FACILITY CONTACT NAME AND PHONE NUMBER:

Mark Bivins – Solid Waste Manager
 Phone (704) 732-9030
 Fax: (704) 732-9048
 mbivins@lincolncounty.org

FACILITY CONTACT ADDRESS:

George Wood – Lincoln County Manager
 115 W. Main St.
 Lincolnton, NC 28092
 (704) 736-8471

PARTICIPANTS:

Bill Wagner, Environmental Senior Specialist – Solid Waste Section.
 Mark Bivins – Lincoln Co. Solid Waste Manager

STATUS OF PERMIT:

Renewal of “Permit to Operate” Pending

PURPOSE OF SITE VISIT:

Comprehensive Audit

STATUS OF PAST NOTED VIOLATIONS:

N/A

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SITE HISTORY and BACKGROUND:

Document Type	Date	DIN
Permit to Operate; Original Issuance (MSW Unit)	9/23/86	N/A
Permit to Operate; (MSW Vertical Expansion - Area E)	5/22/92	N/A
Permit to Construct and Operate; (Demolition Disposal Area)	8/28/92	N/A
Permit to Operate; (MSW Phase I, Cell 1)	8/8/93	N/A
Closure Letter; (MSW Area "E")	12/21/95	N/A
Permit to Operate; Renewal (MSW Phase I)	4/5/99	N/A
Permit to Construct; (C&D Phase II)	4/5/99	N/A
Permit to Construct; (C&D Phase II)	3/31/03	N/A
Permit to Operate – Modification (MSW Phase I, II, and III – C&D Phase IIA)	8/18/03	N/A
Permit to Operate; Amendment (MSW Phase I, II and III - C&D Phase IIA)	9/11/06	409
Permit to Operate; Modification (MSW Phases I, II and III - C&D Phase IIA)	9/15/09	8351

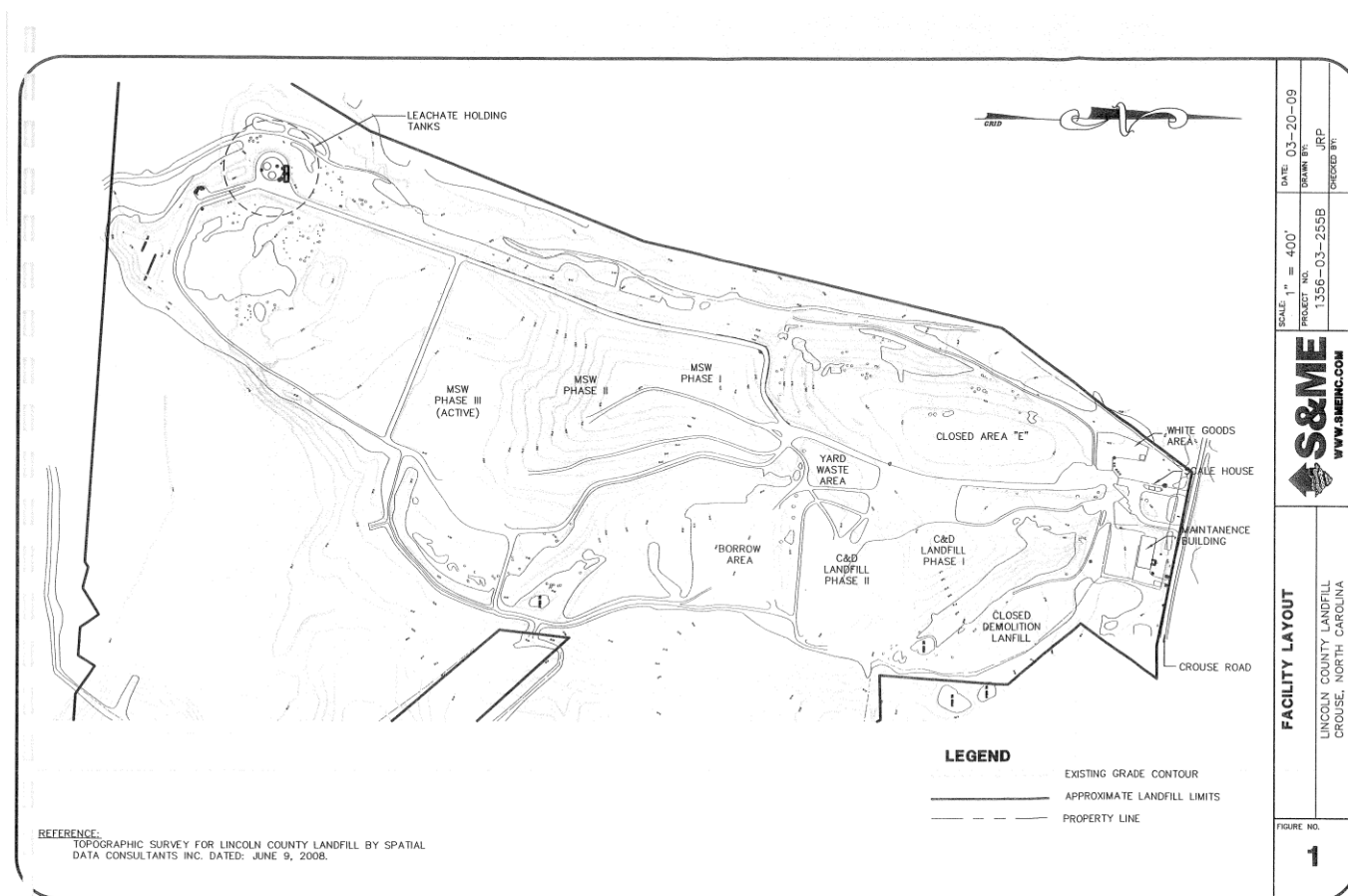


Figure 1: Site Map Lincoln Co. MSW and C&D Landfills 56-03

OBSERVED VIOLATIONS

1. 15A NCAC 13B .1604(b)(2)(C) states “Duty to Provide Information. The permittee shall furnish to the Division, any relevant information which the Division may request to determine whether cause exists for modifying or revoking this permit, or to determine compliance with this permit. The permittee shall also furnish to the Division, upon request, copies of records required to be kept by this permit.”

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Lincoln County is in violation of 15A NCAC .1604(b)(2)(C) by failing to provide the information requested in the “Facility Compliance Audit Report” dated February 15, 2011:

“Landfill gas monitoring well #6 (MMS-6) should be monitored on a bi-weekly or monthly basis for at least three months. If landfill gas exceedances above the LEL are still present after the three month period, then a landfill gas corrective action plan is required.”

Methane was detected in MMW-6 above the regulatory limit of 5% of the lower explosive limit (LEL) for methane in June 2011. (This monitoring point is located west of Phase I of “Area D” of the MSW landfill unit.)

To correct this violation and be in compliance with 15A NCAC 13B 1604(b)(2)(C), within 60 days from receipt of this Notice, Lincoln County must submit a landfill gas corrective action plan for review and approval to:

Jaclynne Drummond – Compliance Hydrogeologist
Division of Waste Management – Solid Waste Section
Mail Service Center 1646
Raleigh, NC 27699-1646

ADDITIONAL COMMENTS

1. Landfill hours of operation: Monday – Saturday 8:30 to 4:30
2. Copies of the landfill permit to operate and the associated operations plans are maintained in the landfill office.
3. Staff Certifications (SWANA):

Name	Certification	Expiration Date
David Bivins	MOLO	09/20/12
William Link	Landfill Operations Specialist	03/16/13
Mike Smith	Landfill Operations Specialist	10/14/14
James Horn	Landfill Operations Specialist	10/14/14
Jimmy Rudisill	Landfill Operations Specialist	04/15/14
Joshua Scott	Landfill Operations Specialist	10/14/14
Matthew Jewel	Landfill Operations Specialist	10/14/14
Joseph Gate	Landfill Operations Specialist	02/13/12
David Hubbard	Landfill Operations Specialist	03/19/13
Doug Morrison	Landfill Operations Specialist	04/14/12
Jeff Dellinger	Landfill Operations Specialist	04/15/14
Walter Laughlin	Landfill Operations Specialist	03/19/13
Jimmy Wise	Landfill Operations Specialist	10/14/14

Access and Safety

4. Access to the facilities is well controlled and the site is surrounded by fencing.
5. There is proper signage at the landfill entrance.
6. The access roads are well maintained.
7. Traffic control signs are well placed.
8. The facility is served by the municipal water system. There is one fire hydrant at the landfill shop and a second hydrant outside of the main entrance.
9. Howards Creek and Crouse volunteer fire departments provide fire and emergency response as needed.

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Closed Municipal Solid Waste Unit: Area "E"

10. A review of the Solid Waste Section's records failed to find any specific requirements for the closure of this landfill unit. Lincoln County does not have any records concerning specific requirements for the closure of this landfill unit. It is believed that this unit closed prior to 12/21/95.
11. Landfill staff is actively removing trees and woody vegetation from the western slopes of this unit.
12. The cap has a well established and well maintained vegetative cover.
13. Edge-of-waste markers are in place at this unit.
14. There was no evidence of any excessive erosion of the cap.

Construction & Demolition (C&D) Landfill – Phase II

15. Tipping fees for the C&D landfill are currently \$20 per ton.
16. The C&D landfill is currently taking in approximately 50-tons of waste per day.
17. The landfill was actively receiving waste during the audit.
18. No prohibited wastes were observed during the inspection.
19. Waste screening records were reviewed. Approximately 1% of all incoming loads are screened.
20. Waste screening is done daily.
21. The active working face was well managed, and not too large.
22. **There was a significant amount of windblown waste that was actively being collected by landfill staff at the time of the inspection. Please take appropriate actions to ensure that all windblown waste is collected and properly disposed of at the end of each day's operations and that adequate cover material is applied as necessary to control disease vectors, fires, and odors, blowing litter and scavenging.**
23. **The upper portions of the southern slope of the C&D landfill are beginning to show signs of erosion. While no sediments were observed moving off site, please ensure that per 15A NCAC 13B .0542(k)(2) "Adequate sediment control measures consisting of vegetative cover, materials, structures or devices must be utilized to prevent excessive on-site erosion of the C&DLF facility or unit."**
24. The edge of waste was clearly identified with permanent markers.

Municipal Solid Waste (MSW) Landfill – Phase III

25. Tipping fees for the MSW landfill are currently \$32 per ton.
26. The MSW landfill is currently taking in approximately 15-tons of waste per day.
27. The landfill was actively receiving waste during the audit.
28. No prohibited wastes were observed during the inspection.
29. Waste screening records were reviewed. Approximately 1% of all incoming loads are screened.
30. Waste screening is done daily.
31. The working face was small and well managed.
32. Windblown waste was actively being collected by landfill staff at the time of the inspection.
33. Application of daily cover appeared to be adequate.
34. Leachate Management:
 - a) The leachate collection system consists of two 250,000-gallon aboveground storage tanks (ASTs).
 - b) Leachate is gravity fed to a lift station which pumps the leachate up to the leachate ASTs.
 - c) Leachate is removed from the ASTs and hauled by landfill staff to the Lincolnton waste water treatment plant. On February 20, 2012 18,000-gallons of leachate was removed on from the ASTs for disposal.
 - d) Leachate is routinely removed from the ASTs whenever the level exceeds 50% capacity of any one tank.
35. The edge of waste was clearly identified with permanent markers.

Treatment and Processing (T&P) Area – Wooden Pallet Grinding

36. Wooden pallets are ground into boiler fuel.
37. Lincoln County owns the grinder for processing the wooden pallets.
38. Currently there is very little market for this boiler fuel.

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Small Type I Composting – Yard Waste

39. A Request for Acknowledgement Letter (RAL) – Small Type I Composting Unit has been approved for the grinding of yard waste into mulch.
40. Lincoln County owns the grinder for processing the yard waste.
41. The yard waste mulch was windrowed into three windrows at the time of inspection.
42. After composting (131°F for at least three days) the mulch is either distributed for use at Lincoln County facilities and properties. Any excess mulch is given away to Lincoln County residents.

White Goods & Scrap Metal Area

43. White goods and scrap metals are staged on a concrete pad with push-walls.
44. White goods were well organized and stored in upright positions.
45. During the inspection scrap metal was being loaded into a semi-trailer to be shipped to the *Southern Metals* facility in Charlotte for recycling.
46. Landfill staff removes CFCs (refrigeration gases) from the white goods as needed. The CFCs are taken to *Southern Metals* facility in Charlotte for disposal.
47. This area was clean and well maintained.

Scrap Tires

48. Scrap tires are stored in semi-trailers prior to being shipped to the *US Tire* facility in Concord, NC.
49. US Tire charges the landfill \$80 per ton for tire recycling and disposal.
50. Scrap tire records were reviewed.
51. The scrap tire area was well managed.

Electronics Recycling

52. All electronics are collected and taken for recycling by *eCycleSecure* of Charlotte, NC.

Water Quality Monitoring

53. Water quality monitoring records were reviewed.
54. Water quality samples are collected semi-annually by the landfill's consultant, S&ME. The most recent report of water quality monitoring was for the sampling event that occurred on April 18 through April 20, 2011.
55. The water quality monitoring plan consists of twenty-nine groundwater monitoring wells, six surface water monitoring points and one leachate sample.
56. A random inspection of six groundwater monitoring wells found all wells to be in good repair, secured with padlocks and clearly marked with unique IDs / well tags, that were correlated with maps provided by the facility.

Landfill Gas Monitoring

57. Landfill gas monitoring is done by landfill staff.
58. A *GEM™ 2000 Landtec* gas monitor is used.
59. The landfill gas monitoring plan consists of gas monitoring wells MMW-1,2,3,4,5,6,7, and 8, along with the monitoring shop, scale house and lift station.
60. A random inspection of three landfill gas monitoring wells found all wells to be in good repair, secured with padlocks and clearly marked with unique IDs / well tags that were correlated with maps provided by the facility.

Disaster Debris Staging

61. The landfill area located northeast of the leachate tanks and south of Phase III of the MSW landfill can be used as a vegetative disaster debris staging area if needed.

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The item(s) listed above were observed by Section staff and require action on behalf of the facility in order to come into or maintain compliance with the Statutes, Rules, and/or other regulatory requirements applicable to this facility. Be advised that pursuant to N.C.G.S. 130A-22, an administrative penalty of up to \$15,000 per day may be assessed for each violation of the Solid Waste Laws, Regulations, Conditions of a Permit, or Order under Article 9 of Chapter 130A of the N.C. General Statutes. Further, the facility and/or all responsible parties may be subject to enforcement actions including penalties, injunction from operation of a solid waste management facility or a solid waste collection service and any such further relief as may be necessary to achieve compliance with the North Carolina Solid Waste Management Act and Rules.

Please contact me if you have any questions or concerns regarding this inspection report.



Bill Wagner

Environmental Senior Specialist
Regional Representative

Phone: 828-296-4705

Sent on: <u>2/29/12</u>	X	Email To: mbivins@lincolncounty.org		Hand Delivery		US Mail		Certified No. <u>7006 2150 0005 2458 9693</u> To: George Wood - Lincoln Co. Manager
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ec: Jason Watkins, District Supervisor – Solid Waste Section
Mark Poindexter, Field Operations Branch Head – Solid Waste Section
Jaclynne Drummond, Compliance Hydrogeologist – Solid Waste Section
Shawn McKee – Solid Waste Section